

Claims

1. An amplifier configured by including a Doherty-type amplifier section, wherein

a permittivity of a substrate configuring partially or entirely the Doherty-type amplifier section is increased compared with a permittivity of a substrate in a close range, and

a line portion forming a part of the Doherty-type amplifier section is configured by using a substrate that is physically stable against either or both of any change observed in a humidity and a temperature.

2. An amplifier configured by including a Doherty-type amplifier section, wherein

a permittivity of a substrate configuring one or more of a quarter wavelength line included in the Doherty-type amplifier section is increased compared with a permittivity of a substrate in a close range.

3. An amplifier configured by including a Doherty-type amplifier section, wherein

a permittivity of a substrate configuring the Doherty-type amplifier section is increased compared with a permittivity of a substrate in a close range.

4. An amplifier configured by including a Doherty-type amplifier section, wherein

a line portion forming an output circuit of a carrier amplifier included in the Doherty-type amplifier section is configured by using a substrate material that is physically stable against either or both of any change observed in a humidity and a temperature.

5. An amplifier configured by including a Doherty-type amplifier section, wherein

a line portion forming an input circuit of a peak amplifier included in the Doherty-type amplifier section is configured by using a substrate material that is physically stable against either or both of any change observed in a humidity and a temperature.

6. An amplifier configured by including a Doherty-type amplifier section, wherein

a line portion forming a combination circuit that combines an output from a carrier amplifier included in the Doherty-type amplifier section with an output from a peak amplifier is configured by using a substrate material that is physically stable against either or both of any change observed in a humidity and a temperature.